

ABSTRACT

The preparation of allylated poly(vinyl chloride) by utilizing an allyltrialkylsilane in the presence of Friedel-Crafts acids is disclosed. The pendant allyl groups can be further reacted through various functionalization reactions to contain end groups such as epoxy and hydroxyl. Alternatively, an unsaturated group can be added to poly(vinyl chloride) utilizing a diene also in the presence of a Friedel-Crafts acid. These pendant groups can also be reacted to contain functional end groups such as hydroxyl and epoxy. In yet a further embodiment, the functionalized end groups such as pendant -OH groups of both the allylated and diene grafted poly(vinyl chloride) are further reacted with other monomers or polymer chains which thus results in a poly(vinyl chloride) chain having pendant monomers or polymers. These compositions are useful as compatibilizers for poly(vinyl chloride) and various other resins.